FORM U-1A MANUFACTURERS' DATA REPORT FOR PRESSURE VESSELS (Alternative Form for Single Chamber, Completely Shop-Fabricated Vessels Only) As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

Menufactured by Industrial Alloy Fabricators, Inc.										
		ion					0.3 **		um e nationalista de la companya del la companya de	
Type ho	riz	I tanki	3651	4-2	(CDA)	<u>D-33</u>	91D _	1112	Year Bu	,iit <u>83</u>
(17)	O-14 (J) VE	· (grim!	(Migr \$ 5	remainto)	(CHN)	(Drawin	j mo i	(Natiad Not	•	
VESSEL CO	DE. The	design, co	onstruction,	and work man	ship conform	to ASME Ru	es. Section \	/III, Division 1	1980	bne ('set)
Addenda to	Win	ter,8	2 (Date) and	d Code Case N	los		Special	Service		
Manufacture	rs' Parti	al Data Re	ports prope	rly identified	and signed b	y Commission	ed Inspector	s have been furnis	hed for the folio	owing items of the
report:										
_										
Shell: S	B582	Alloy	<u>G3</u>	.242	<u> </u>	0625	<u>5'-</u>	0" OD	<u> 19'-9</u>	片" OA
									_	
Seems: W1	<u>d.db</u>	1.but	t spo	<u>t </u>	<u> </u>		w <u>ld</u>	<u>.dbl.butt</u>	spot	3
	Snot inc	Rutti			# (S) H 1 1	emp (F) Tim				al No of Courses
Heads: (a) M	atiS	B582A	11oyG3			(b) M			-	
			(Spe	rc No Grade)				(Spe	c No. Grade:	
		- 1	Corrosion	Crown	Knuckte	Ethiptorial	Conical	Hem-spherica:	Flat	Side to Pressure
Bottom Ends	Thic	kness	Allowance	Radius	Radius	Ratio	Apri Ang	e Radius	Diameter	(Convex or Concave)
ends	. 2	43	.0625	60	3.75					both
	1			· · · · · · · · · · · · · · · · · · ·		1			<u> </u>	
16 20-0			ha ash			<u></u>	- 		<u> </u>	
ir removable	, DOIRS U	I JUD (D escri	ue other tasi	(entrigs)			(Matt. Spec	No Gr Size No.)		
Comm. 4	-14	+ +	FV.	02120F	& 5በ		572)		.o 0
Const. for m	IEX. BIIO	w. working	pressv	131	<u> </u>	si at max. tem	2 / 2	F Min. temp (wh	hen less than 20) F)F.
Hydro., orga	ex moch	Mp. test pr	'essure				in a	nother na	rt of a	atom
						Locati	on_111_d	nother pa	it of sy	stem
Nozzies and	Inspecti	on Openin	gs:	· · · · · · · · · · · · · · · · · · ·	topotentini de de desembro de la desembro de la competencia del la			rakunin remod vilkona modelnu namu stevano o cu cuntuugeup iipagaga	notice of the second	****
Purpose 1. Outlet, Drain)	No	Diam: or Size	Type		Mair	Num. The			How Attached	Location
	10		d+11h	and CDE	(82_02		1 +	The Mill Co		lab be
IIWIII			stub "	ena pp	"			one "		sh,hd
		 			11					shell
	<u></u>	 			11				↓	sh,hd
		 						082-G3		shell
ıway		24				- + • 25	V +		+"	
1						2) 11				
Supports: Si	kirt <u>n</u>	S or no	gs(No.)	Legs	Other	اع sadd	LES_A	tached <u>Well</u>		
			_	~~~ ==	1 "		1 - 1 ! -			••
Remarks:		mem1C	ar pro	cess ve	essel to	or non-	rethal	service		
					erial control designer assessment of the same of the	White the delicate have an a first to the designation	The section of the se	- Addition and the commence of the company of the c	THE CONTRACTOR STATE CONTRACTOR IN CO.	
***************************************							~			
								1		
certify that ti						details of de	sign, mater/s	, construction, an	d work manship	of this vessel con
	E Code 1	or Pressure		tion VIII Di			/ [12110-	10.11	
	2 - 12		redT110	· Allo	Y FID.		bv/	ariana	e MANCA	ru_
	3-8	Sigr		10	nanuraCturer)		•		representative	
	3-8	==Sigr			חשרי					
	3-8:				<u> 8351</u>	E x p	res	3-30		1986
to the ASMI 5-23	f Author	rization No		CERT	TIEICATE OF	SHOD INCO	CTION .			
to the ASMI 5-23	f Author	rization No		CERT		SHOD INCO	CTION .	ond, VA		
Certificate o	f Author Indu	rization No 1stria ng a <u>v</u> elid	l Allo	CERT Y Fabr:	TIFICATE OF L Cators	SHOP INSPE	CTION RICHT	ond, VA	s and/or the St	19_86
Certificate o	f Author Indu	ization No Istria	l Allo	CERT Y Fabr:	TIFICATE OF L Cators	SHOP INSPE atat pard of Boiler rkwrigh	CTION Richm and Pressur t-Bost	ond, VA	s and/or the Str	
Certificate o	f Author Indu	rization No 1stria ng a vælid & Pa	al Allo	CERION FADY:	TIFICATE OF L Cators	SHOP INSPER at pard of Boiler rkwrigh	CTION Richm and Pressur t-Bost	ond, VA	Mutual	ite or Province of
control the ASMI Certificate of the undersigner of the undersigner of the unspected the control of the unspected the unspected the control of the unspected the unspec	f Author Indu d, holdi hio	rization No 1stria ng a valid & Pa re vessel de	al Allo	CERTOY Fabri	IFICATE OF CATORS National Bonployed by Arer's Data Rep	SHOP INSPER	CTION RICHM and Pressur t-Bost AY 5	ond, VA Vessel Inspector On Manuf. 983 19	Mutual	nte or Province of Ins. **
Certificate o	f Author Indu d, holdi Dhio e pressur	rization No 1Stria ng a valid & Pa re vessel de f, the Man	commission	y Fabriasued by the and endis Manufactures constructed	IFICATE OF CATORS e National Bonployed by Arer's Data Report this pressure.	sHOP INSPE	CTION RICHM and Pressur t-Bost AY 5	ond, VA Vessel Inspector On Manuf. 983 , 19	Mutual, and state ti ttion VIII, Divis	ite or Province of INS. ** net, to the best of ion 1. By signing
Certificate of the undersigne undersigne inspected the knowledge arcertificate ne	f Author Indu d, holdi hio e pressur nd belie	rization No 1Stria ng a valid & Pa re vessel de f, the Man e Inspector	commission scribed in the	y Fabr: issued by the and ending Manufactures constructed ployer makes	IFICATE OF CATORS National Bonployed by Arer's Data Report this pressure any warranty	SHOP INSPE	RICHM AND PROSSUR TO BOST AY 5 Ordance with	ond, VA vessel Inspector on Manuf. 983 , 19 ASME Code, Seconcerning the press	Mutual , and state to ction VIII, Divis ure vessel descri	nte or Province of INS ** net, to the best of signing bed in the Manu
Certificate of the undersigne undersigne inspected the knowledge as certificate neurors' Data fil	f Author Indu d, holdi hiO e pressur nd belie sither th eport. F	rization No 1Stria ng a valid & Pa re vessel de f, the Man e Inspector urthermoge	commission scribed in the suffecturer has reported to the suffecturer of the suffecturer that the sufficient that the suffecturer that the sufficient that the suffecturer that t	CERT Y Fabr: issued by the and ending Manufactures constructed ployer makes at Inspector in	IFICATE OF L CATORS e National Bonployed by Arer's Data Report this pressure any warranty or his employed.	SHOP INSPE	RICHM AND PROSSUR TO BOST AY 5 Ordance with	ond, VA Vessel Inspector On Manuf. 983 , 19	Mutual , and state to ction VIII, Divis ure vessel descri	nte or Province of INS ** net, to the best of signing bed in the Manu
Certificate of the undersigned inspected the knowledge are certificate neurors' Data filloss of any k	f Author Indu d, holdi hiO e pressur nd belie sither th eport. F	rization No 1Stria ng a valid & Pa re vessel de f, the Man e Inspector urthermoge	commission scribed in the suffecturer has reported to the suffecturer of the suffecturer that the sufficient that the suffecturer that the sufficient that the suffecturer that t	CERT Y Fabr: issued by the and ending Manufactures constructed ployer makes at Inspector in	IFICATE OF L CATORS e National Bonployed by Arer's Data Report this pressure any warranty or his employed.	SHOP INSPE	end Pressur t-Bost AY 5 ordance with rimplied coil	ond, VA vessel Inspector on Manuf. 983 , 19 ASME Code, Seconcerning the press	Mutual , and state to ction VIII, Divis ure vessel descri	nte or Province of INS ** net, to the best of signing bed in the Manu
Certificate of the undersigne undersigne inspected the knowledge as certificate neurors' Data fil	f Author Indu d, holdi hiO e pressur nd belie eport. F ind arisin	rization No 1Stria ng a valid & Pa re vessel de r, the Man e Inspector urthermor ulnspector	commission scribed in the suffecturer has a more his employment of the connected we have a suffer the connected we have a su	y Fabr: issued by the and ending Manufactures constructed ployer makes a Inspector noith this inspector.	IFICATE OF L CATORS e National Bonployed by A Per's Data Report this pressure any warranty or his employection.	shop insperience of Boiler rkwrigh ort on severe of expressed or yer shall be like 2.3.1983	CTION RICHT AND PRESSUR T-BOST AY 5 ordance with r implied coi ible in any n	vessel Inspector on Manuf. 983 19 ASME Code, Secondering the pressent for any per	Mutual, and state to ction VIII, Divisore vessel descriptional injury or VAC (SOLVA)	nte or Province of INS. ** net, to the best of signing bed in the Manu
	Manufacture Location of Type NO H The chemic VESSEL CO Addenda to Manufacture report: Shell: S Seams: W1 Heads: (a) M Location (Top Bottom Ends ends ends if removable Const. for m Hydro., orm Safety Valve Nozzies and Purpose Louitet Draini nKnown H H H NWay Supports: Si Remarks:	Manufactured for	Manufactured for Location of Installation Type NOTIZ [Horiz or vert tank] The chemical and physical possible to Winter, 8 Manufacturers' Partial Data Reservation Openin Const. for max. ellow. working Hydro., 9(966) Most Wor	Manufactured for	Location of Installation	Manufactured for	Manufactured for Union Carbide Corp.	Manufactured for Institute WV Institute Institute WV Institute Institute WV Institute Inst	Manufactured for Institute, W V V V V V V V V V	Manufactured for Union Carbide Corp.

FORM R-2 REPORT OF ALTERATION

in accordance with provisions of the National Board Inspection Code

1a. Construction perform		organization responsible			153
1545 Whipple Ave. SW	(Form R No.) 37561				
	Canton, OH 44710 (address)			(PO No., Job	
1b. Design performed by	: Gaspar, Inc.			X . 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	153
		organization responsible	for design)	(Fo	rm R No.)
1545 Whipple Ave. SW	Canton, OH 44710			3756	
2. Owner: Bayer Cro	(address)			(PO No., Job	No., etc)
	Posicino	1)	name)		
Route 25 – Building 330	Institute, WV 25112				
3. Location of installation	Bayer CropScience	(address)	(name)		
Route 25 - Building 330	Institute, WV 25112		(name)		
4. Unit identification	Braceura Vaccal	(address)		7 . J . L . L AU	
	(boiler, pressure vessel)	Name or origi	nal manufacturer _	Industrial Alloy F	abricators, Inc.
5. Identifying nos.:	36514-2	1112	5/310 erc 0		1983
	(mfg serial No.)	(National Board No.)	(jurisdiction No)	(other.)	(year built)
6. NBIC Edition / Addend			2009	(other.)	(year built)
	(editio	-	(addenda)	7-2	
Original Code of Const		ASME Section VIII, D)/1982, Winter	
		(name/section/division		ition/addenda)	
Construction Code Use	ed for Alteration Performed			2007/2009	
7a. Description of constru	ction work: 1) Removed	(name/section	/division) lozzle "F" and replace	(edition/addenda)	lozzle with a 1/4"thk
TO VE	((se supplemental sheet R-4,	if necessary)		
reinforcement pad (SB62)	5-N10276, SB366-N10276,	SB575-N10276, SA10	5). 2) Removed existing	ng 2" 150#LJ Nozzle	"L" and replaced
with a 4" 150#LJ with a 1	/4"thk reinforcement pad (SB626-N10276, SB36	6-N10276, SB575-N10	276, SA105). 3) Ad	ded a 3″ 150#∐
Nozzie "S" to the shell (Si	3622-N10276, SB366-N102	76, SA105). 4) Added	d a 3″ 150#∐ Nozzle `	'T" to head (SB622-N	N10276,
SB300-N1U2/6, SA1U5).	5) Added a 1/4"thk reinford	cement pad (SB5/5-N	10276) to 3" 150#LJ	Nozzle "Q".	
7b. Description of design	scope: 1) Pomovin	2 2 2" 1EO#I 1 Nozzlo	"F" and replacing with	C# 150#13 No1-	11. d (d10.1.)
7 b. Description of design	1) Kemovin	se supplemental sheet R-4,	if necessary)	16 150#LJ NOZZIE V	ith a 1/4"thk
reinforcement pad. 2) Rei	moving a 2" 150#LJ Nozzle	"L" and replacing wit	h 4" 150#LJ Nozzle w	ith a 1/4"thk reinford	ement pad.
3) Adding a 3" 150#LJ No	ozzle "S" to the shell. 4) Ac	ding a 3" 150#∐ Noz	zzle "T" to a head. 5)	Adding a 1/4"thk rei	nforcement pad
To 3" 150#LJ Nozzle "Q".					
Pressure test, if applied	CF.	osi MAWP			
			50 psi		
8. Replacement Parts.	Attached are Manufac	turer's Partial Data Re	eports or Form R-3's p	roperly	
	completed for the foll	owing items of this re	eport.		
	(name of part, item n	umber, data report type, m	fg's name, and identifying m	nark)	
None				and the second s	
		***			**************************************
9. Remarks: Alteration	ons performed on site at Ba	ver CropScience, Inst	itute. WV		
-70		/ opening and	reace, 1111.		

153 Form "R" No.

				-		
				e and belief the statements in this report are		
Nation	al Board "R" Certificat	e of Authorization No	558	Expires on July 25 , 2011		
Date	08-03-2010	Gaspar, Inc. (name of design organization)	Signed	Matter 2 Millie (authorized representative)		
		CERTIFICATE OF DES	SIGN CHANGI	E REVIEW		
Vesse	l Inspectors and certif OneBeacon An	ficate of competency issued by the nerica Insurance Company	e jurisdiction of of	Lynn, Mass have		
comp By sig the w	lies with the applicable ining this certificate, ne ork described in this r ersonal injury, propert	e requirements of the <i>National Be</i> either the undersigned nor my empeport. Furthermore, neither the unity damage or loss of any kind arise	pard Inspection bloyer makes an undersigned nor sing from or con	y warranty, expressed or implied, concerning my employer shall be liable in any way for nected with this inspection.		
Date	08-03-2010	Signed (inspector)	el	Commissions NB-9838A/B PA-2646 OHIO COMM (National Board and jurisdiction no.)		
		CONSTRUCTION	CERTIFICAT	TION		
correct	and that all material,		this Alteration co	e and belief the statements in this report are onforms to the <i>National Board Inspection Code</i> . Expires on July 25 , 2011		
1	8-2-10	Gaspar, Inc.	Signed	Wooley Mozocon (a)thorized signature)		
CERTIFICATE OF INSPECTION						
by inspections belief By significant with the windows and the	OneBeacon And certificated the work described this work complies within this certificate, nearly described in this record described in this record.	ricate of competency issued by the nerica Insurance Comapny ed in this report on	e jurisdiction of of of and s the National Booloyer makes an undersigned nor sing from or con	Lynn, Mass have state that to the best of my knowledge and pard Inspection Code. y warranty, expressed or implied, concerning my employer shall be liable in any manner for		